

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An optical disc device comprising:
a pickup having a semiconductor laser for providing a laser beam for recording of data on an optical disc;
a motor coupled to rotate the optical disc;
a movement mechanism configured to move the pickup in a radial direction of the optical disc;
a system controller configured to control the pickup by supplying drive current to the semiconductor laser and to control rotational speed of the optical disc; and
a temperature sensor configured to detect temperature of an interior of the pickup;
wherein the system controller:
determines data recording properties of the optical disc, and
controls the drive current supplied to the semiconductor laser based on in accordance with the temperature detected by the temperature sensor, and
controls the rotational speed of the motor optical disc based on the detected temperature detected by the temperature sensor and the determined data recording properties of the optical disc determined by the system controller,
thereby continuously executing a recording operation on the optical disc.
2. (Original) The optical disc device according to claim 1, wherein the system controller determines the data recording properties of the optical disc based on information recorded in an inner circumferential section of the optical disc.

3. (Currently amended) The optical disc device according to claim 1, wherein the system controller comprises a table for setting ~~a~~ the data recording speed ~~for onto~~ the optical disc, the table containing the detected temperature and the data recording properties of the disc as parameters.

4. (Previously presented) The optical disc device according to claim 1, wherein the dimension of the optical disc device in the thickness direction t thereof is no more than 10 mm.

5. (Original) The optical disc device according to claim 1, wherein the data recording properties of the optical disc include at least one of the type of the optical disc, information regarding the manufacturer of the optical disc, information regarding the laser power needed for recording, and information regarding the rotational speed of the optical disc.

6. (Currently amended) A method of ~~data recording~~ data on ~~of~~ an optical disc, ~~the method~~ device comprising:

- rotating an optical disc;
- recording data by directing a laser beam onto the optical disc;
- detecting temperature of an interior region of a pickup having a semiconductor laser providing a laser beam for recording ~~of~~ data on the optical disc ~~device~~;
- controlling drive current to the semiconductor laser based on the detected temperature;
- determining data recording properties of the optical disc; ~~and~~
- setting the rotational speed of the optical disc based on the detected temperature and the determined data recording properties of the optical disc; and
- continuously executing a recording operation on the optical disc.

7. (Currently amended) The method ~~of data recording of an optical disc~~ device according to claim 6, wherein the data recording properties of the optical disc are determined based on information recorded in an inner circumferential section of the optical disc.

8. (Currently amended) The method ~~of data recording of an optical disc~~ device according to claim 6, wherein setting of the rotational speed of the optical disc is performed prior to executing the recording operation on data onto the optical disc.

9. (Currently amended) The method ~~of data recording of an optical disc~~ device according to claim 6, wherein setting of the rotational speed of the optical disc is performed after executing the recording operation on data onto the optical disc.

10. (Currently amended) The method ~~of data recording of an optical disc~~ device according to claim 6, wherein the data recording properties of the optical disc include at least one of the type of the optical disc, information regarding the manufacturer of the optical disc, information regarding the laser power needed for recording, and information regarding the rotational speed of the optical disc.